

**IN THE SPECIFICATION**

Please replace the abstract with the following abstract (note the abstract is also submitted on a separate sheet):

**ABSTRACT**

An electromagnetic probe having at least one assembly including in combination: a coaxial type connectio, a ground plane connected to the outer sheath of the coaxial connection, a reflector cone placed facing the ground plane and shaped to define impedance that is at least substantially constant along its profile, the reflector being electrically isolated, and a dielectric medium interposed at least in part between the reflector cone and the ground plane.